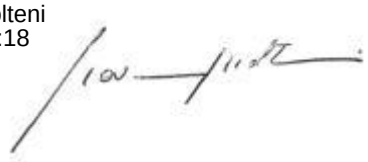
OGGETTO SOTTOPOSTO A PROVE / *ITEM UNDER TEST*	
Descrizione *Description*	Visualization system based on 32" TFT module and industrial embedded PC
Modello *Model type*	***COMPACT 32 500 M J1900 ACL MD SCL*** ***Cod.993201600101***
Identificativo interno *Storage No.*	180002 (sampled by applicant)
Richiedente *Applicant*	Aesys S.p.A.
Indirizzo *Address*	Via Pastrengo, 7/C I-24068 Seriate (BG) - Italia
Prove effettuate presso *Test carried out by*	TÜV Rheinland Italia Srl Via E. Mattei, 3 – 20010 Pogliano Milanese (Italy)
Norme di riferimento *Reference Standards*	**EN 61000-6-4:2007 + EN 61000-6-4/A1:2013**
Scopo delle prove *Scope of the tests*	To verify the compliance with the following clauses of reference standards - See summary of testing at *TEST SUMMARY* section
Risultati di prova *Test Results*	**COMPLIANT**

Data ricevimento campioni *Date of samples receiving*	04/01/2018		
Data inizio prove *Date of tests start*	26/02/2018	**Data fine prove** *Date of tests end*	27/02/2018
Rapporto composto da *Test report composed by*	15 Pages		

Provato da / Tested by *(name + signature)*		**Approvato da / Approved by** *(name + signature)*
Firmato da: Andrea Bortolotti Motivo: Data: 14/03/2018 14:07:07 Andrea Bortolotti *(Laboratory Technician)*		Firmato da:Giovanni Molteni Data: 14/03/2018 14:19:18  Giovanni Molteni (*Technical & Laboratory Manager*)

The results referred in this report are only relevant to the samples tested and described in this report.
Only complete reproduction of this test report is permitted without written authorisation of TÜV Rheinland Italia
Compliance with test requirements recorded in this technical report does not give presumption of compliance to all requirements by reference standard.

RELEASE CONTROL RECORD		
TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
28111272-004	Original release	13/03/2018

OGGETTO SOTTOPOSTO A PROVE / *ITEM UNDER TEST*	
Descrizione *Description*	Visualization system based on 32" TFT module and industrial embedded PC
Marca *Brand*	aesys
Costruttore *Manufacturer*	Aesys S.p.A.
Modello *Model / Type reference*	Compact 32 500 M J1900 ACL MD SCL code: 993201600101
Dati di targa *Ratings*	100-230Vac ~ 50/60Hz
Classificazione *EUT classification*	---
Massima frequenza di clock *Maximum clock frequency*	Not declared
Installazione *Standing*	Wall / Ceiling / Embedded / Pole support

PORTE DI INTERFACCIA / *INTERFACE PORTS*				
Port	**Description**	**Connections**		
		Description	**(Un)Shielded**	**Length (m)**
Enclosure	*Metallic and Glass*	*Screw*	---	---
AC Mains	*100-230V~ 50/60Hz*	*Connector & cable*	*Unshielded*	*>3mt*
DC Mains	Port not present	---	---	---
Signal	Ethernet	RJ45 cable	Shielded	>3mt
Note: During the test all cables must be what provided the manufacturer of the same that used in the real employment of the EUT				

MODELLI DERIVATI / *DERIVED MODELS*		
Model name	**Manufacturer**	**Speaking code**
Compact 32" 500 z J1900 y x	*Aesys*	*z: M – Monolitic glass 6mm or 4 mm* *L – Laminated glass 3+3mm*
	Aesys	*y: MD – Media Converter* *ACL – Accellerometer* *SCL - Sclading*
	Aesys	*x: SSD – External drive 2,5"*

COMPONENTI AUSILIARI / *ANCILLARY EQUIPMENTS**		
Description	**Manufacturer**	**Model name**
Laptop PC	*Lenovo*	*T61*

**not provided by the customer*

MODALITA' DI FUNZIONAMENTO / OPERATING MODES			
Operation mode		**Description**	**Representative parameter**
#1	TFT ON –audio active Ethernet link	Moving image, audio reproduction, ping active to auxiliary component	image shown on TFT monitor, Ethernet link

Reference Document	Title of Document
EN 61000-6-4:2007 + EN 61000-6-4/A1:2013	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments

SOMMARIO DELLE PROVE / *TESTS SUMMARY*

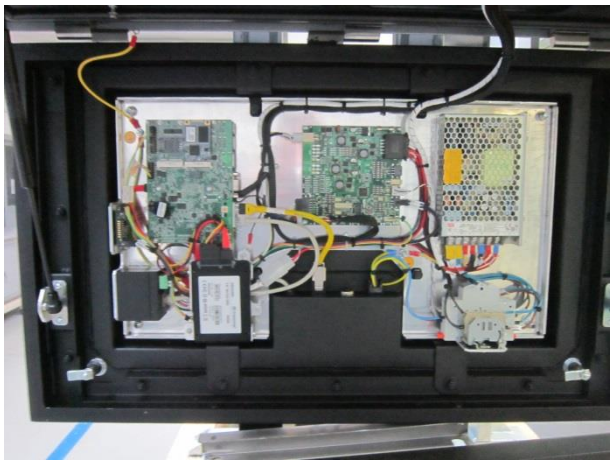
RADIATED EMISSION – EMISSIONE RADIATA **.....10**

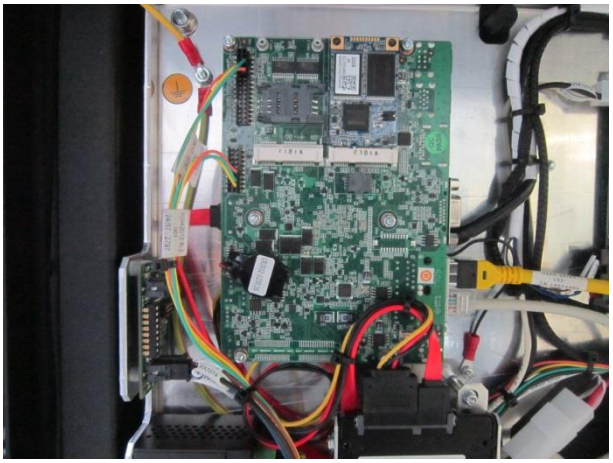
CONDUCTED EMISSION – EMISSIONE CONDOTTA **.....13**

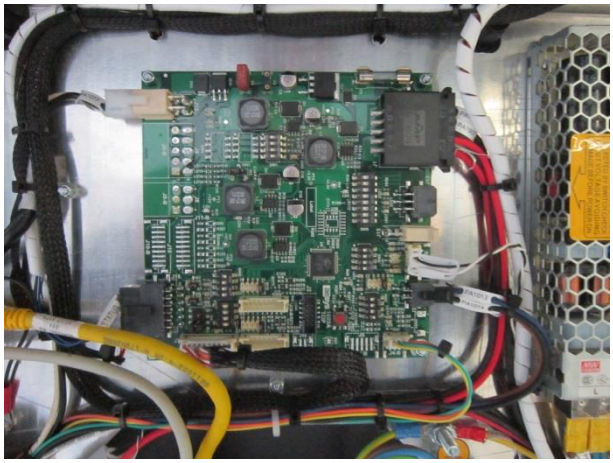
ESITO DELLE PROVE DI EMISSIONE / *EMISSION TESTS RESULT*		
Prova / Test	**Porta / Port**	**Esito / Result**
Emissione radiata */ Radiated emission*	AC mains	COMPLIANT
Emissione condotta / *Conducted emission*	AC mains	COMPLIANT

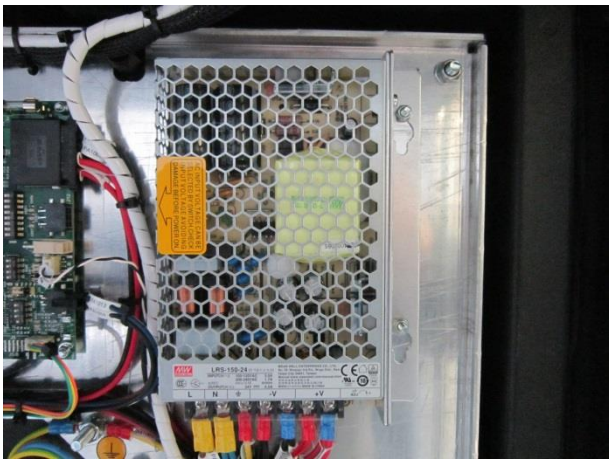
Compliant = Result within the limits
N/A = Not Applicable
N/R = Not requested by the Client

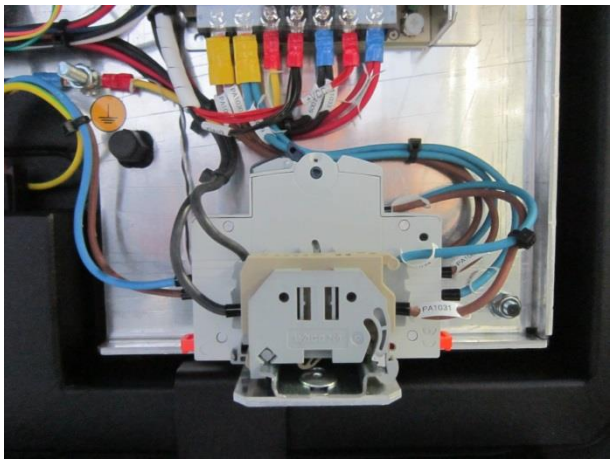
DOCUMENTAZIONE FOTOGRAFICA / *PHOTOGRAFIC DOCUMENTATION*

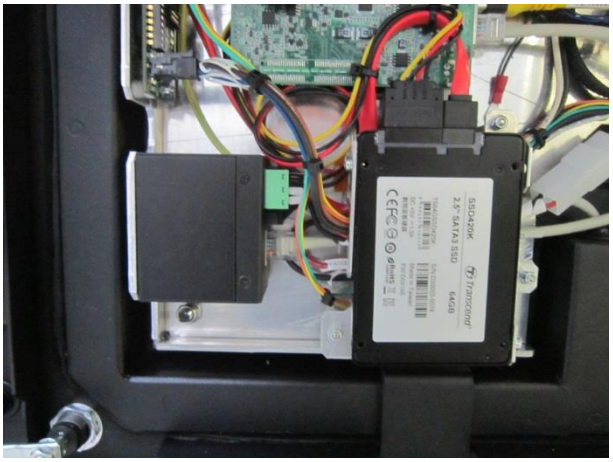


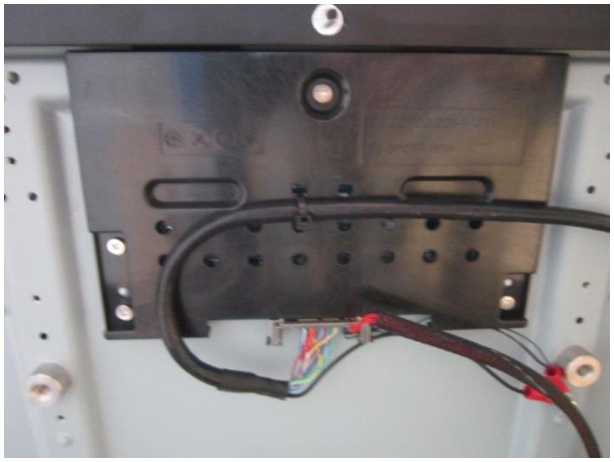


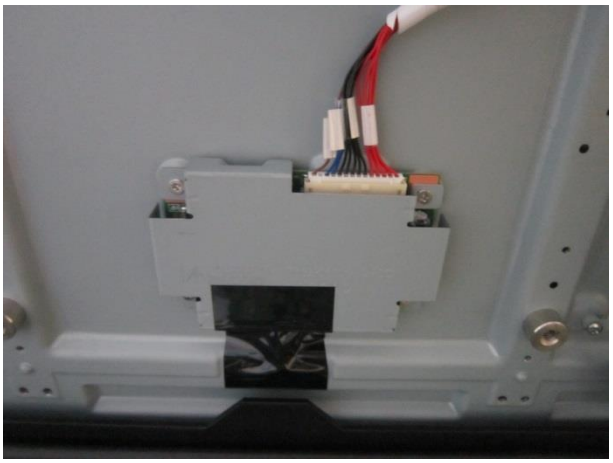


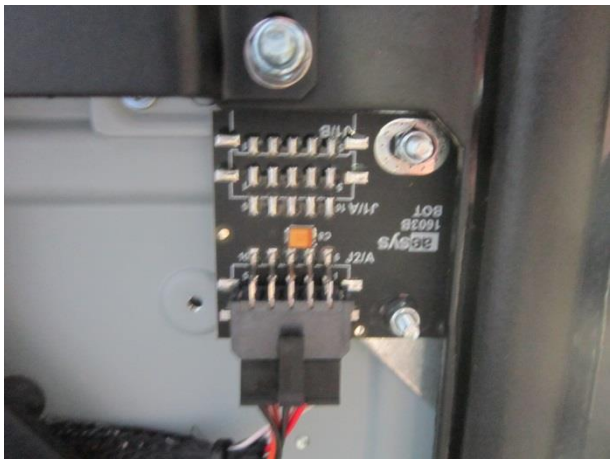


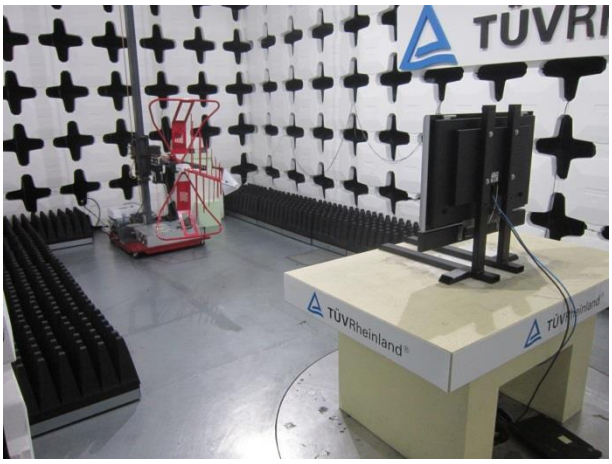








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Test N.1	***RADIATED EMISSION –*** *EMISSIONE RADIATA*

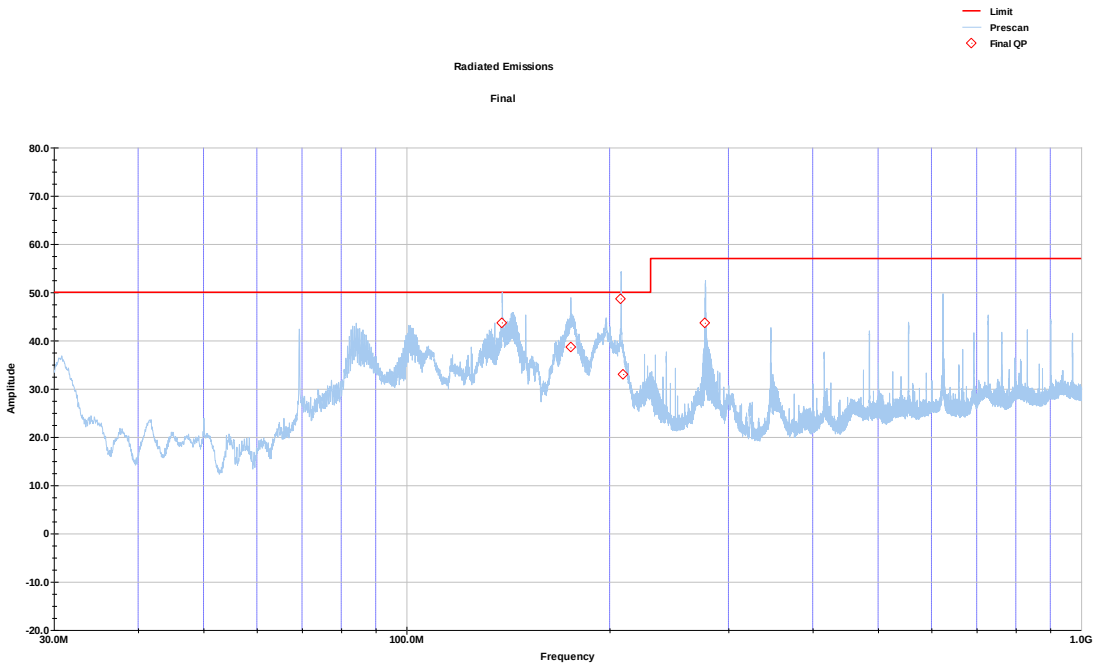
Test performed according to	EN 55011
Operative instruction	IO_BSP_933_020
List of reference equipment	➢ Semi-Anechoic Chamber ETS Lindgren mod. FACT3 (Inv. 87020484) ➢ EMI Test Receiver R&S mod.ESW44 (Inv. 87020967) ➢ Antenna BiLog ETS Lindgren mod.3124E (Inv. 87020457)
Measurement Uncertainty	Expanded uncertainty (30MHz – 1GHz): 5,8 dB Expanded uncertainty (1 GHz – 3,6 GHz): 4,9 dB Expanded uncertainty (3,6 GMHz – 8 GHz): 5,4 dB Coverage probability: 95 % Coverage factor: 2,0

Number of samples under test	1

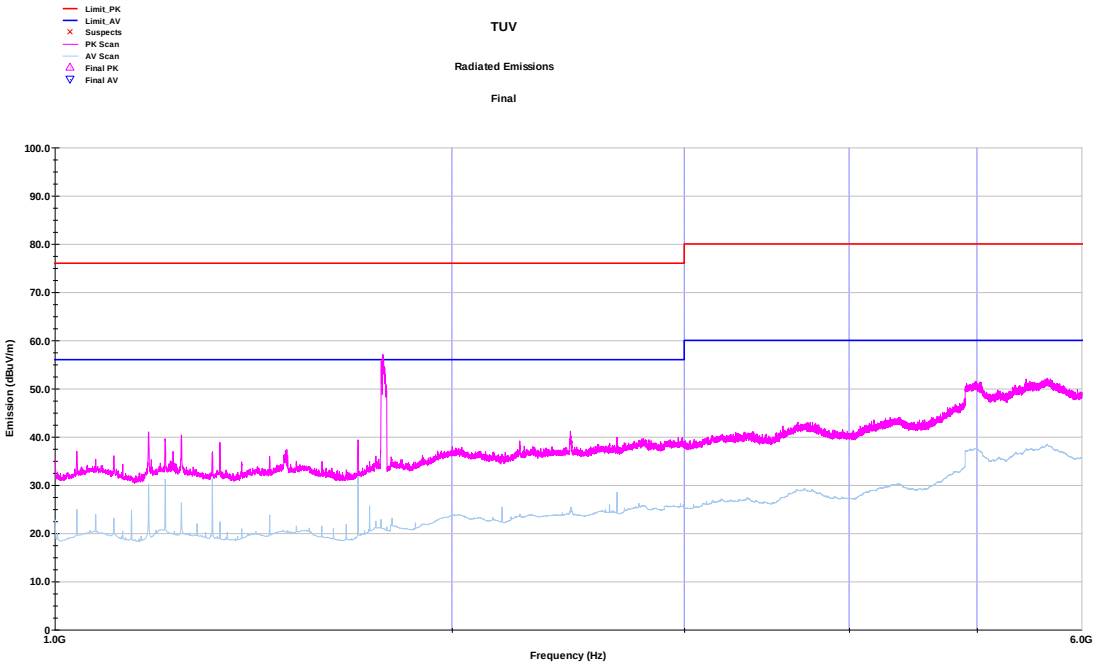
Test Conditions	Required	Measured
Ambient Temperature	(15 ÷ 35) °C	(19 ± 2) °C
Ambient Relative Humidity	(25 ÷ 75) %rH	(45 ± 10) %rH

Test Setup	EN 55011 par. 8
Test Procedure	EN 55011 par. 7
EUT Operating Mode(s)	#1
Acceptance Criteria	Class A EUT: limits are indicated in EN 55011

Test Results



Frequency	QP	Margin	TT	Tower	Polarization
MHz	dBuV/m	dB	deg	cm	H or V
138.49 MHz	43.718	-6.282	253.000	322.000	H
175.02 MHz	38.576	-11.424	83.000	240.000	H
207.75 MHz	48.700	-1.300	220.900	170.000	H
209.53 MHz	33.029	-16.971	174.000	125.000	V
276.94 MHz	43.661	-13.339	140.900	333.000	H


Limit_PK
Limit_AV
Suspects
PK Scan
AV Scan
Final PK
Final AV
TUV
Radiated Emissions
Final
Emission (dBuV/m)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0
1.0G
6.0G
Frequency (Hz)

Test N.2	***CONDUCTED EMISSION –*** *EMISSIONE CONDOTTA*

Reference standard	EN 55011
Operative instruction	IO_BSP_933_020
List of reference equipment	➢ EMI Test Receiver R&S mod. ESW44 (Inv. 87020967) ➢ LISN PMM mod. PMM L3-64 (Inv. 87020466) ➢ LISN R&S mod. ENV216 (Inv.87020993)
Measurement Uncertainty	Expanded uncertainty (9kHz – 30MHz): 3,8 dB Coverage probability: 95 % Coverage factor: 2,0

Number of samples under test	1

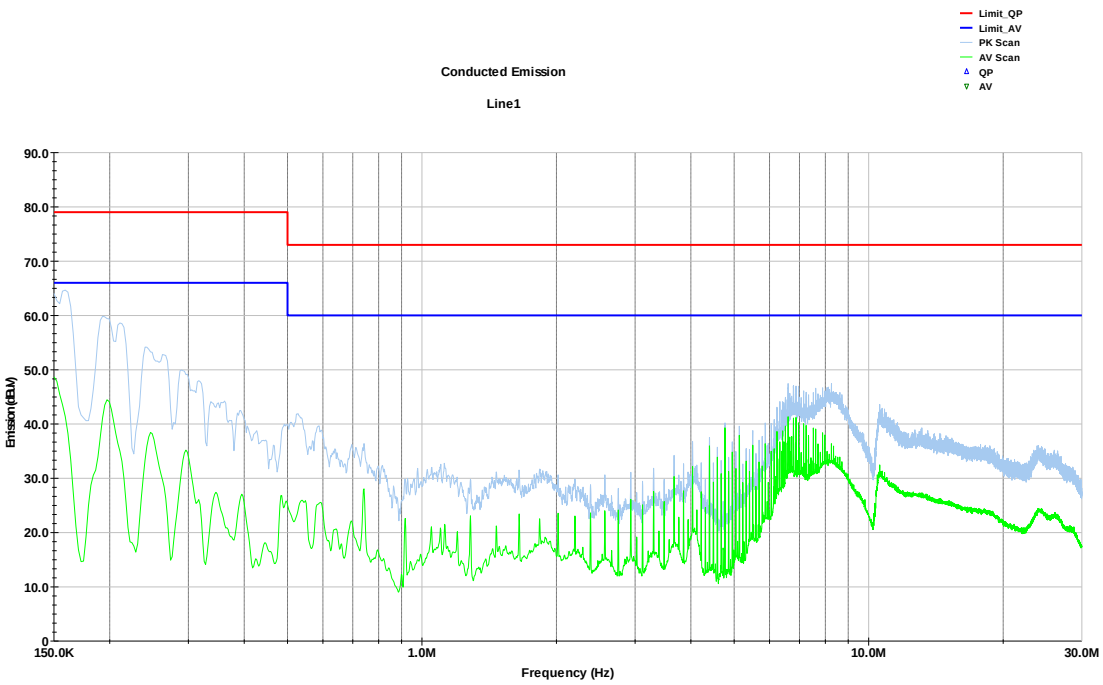
Test Conditions	Required	Measured
Ambient Temperature	(15 ÷ 35) °C	(21 ± 2) °C
Ambient Relative Humidity	(25 ÷ 75) %rH	(46 ± 10) %rH

Test Setup	EN 55011 par. 8
Test Procedure	EN 55011 par. 7
EUT Operating Mode(s)	#1
Acceptance Criteria	Class A EUT: limits are indicated in EN 55011

Test Results

EUT Operating Mode(s) #1

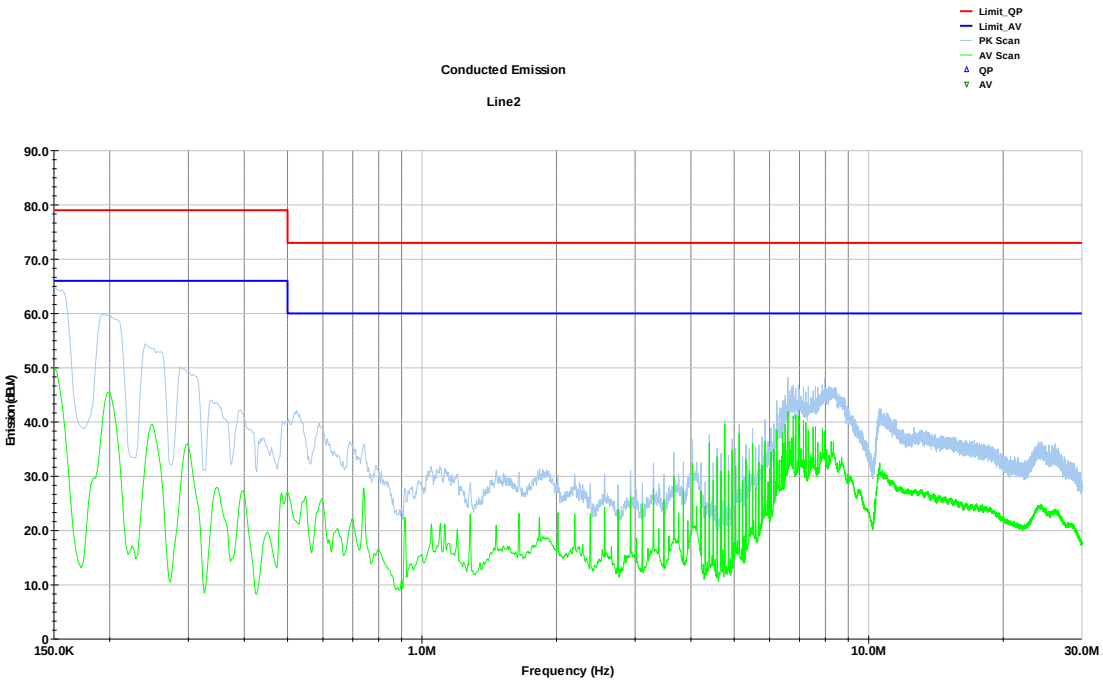
Line 1



Test Results

EUT Operating Mode(s) #1

Neutral line



END OF TEST REPORT